Macroscopic pKas of Cysteine

Cys⁺¹
$$\xrightarrow{pK_{a1} = 1.71}$$
 Cys⁰ $\xrightarrow{pK_{a2} = 8.33}$ Cys⁻¹ $\xrightarrow{pK_{a3} = 10.78}$ Cys⁻²

Microscopic pKas of Cysteine

$$pK_{a,S} = 8.53$$

$$pK_{a,N'} = 10.03$$

$$pK_{a,N'} = 10.36$$

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pKas of Glycine